PATENT CLAIMS

A horizontal-axis electrical machine (10), 1. comprising a casing (14, 15, 16), which is reinforced by casing ribs (24,..., 27, $|30\rangle$) and is subdivided into a bottom casing section (15) and a removable top casing section (16), and comprising a laminated stator core (11), which is braced in bearing rings (13, 13', 13''), which are arranged perpendicular to the longitudinal axis (36) of the machine, are spaced apart from one 10 another and are resiliently connected at a plurality of points of their outer dircumference to the bottom casing section (15) by means of fastening parts (18, 19, 20, 21), characterized in that between the laminated stator core (11) or the bearing rings (13, 15 13', 13'') and the bottom casing section (15) there are arranged fixedly adjusted securing means (31,.., 35), which during transportation of the machine (10) limit the axial relative movement between the laminated stator core (11) or the bearing rings (13, 13', 13'') 20 the bottom casing section (15), and during and operation ensure a free expansion of the laminated stator core (11) with respect to the colder casing (14, 15, 16).

claim 1, in claimed machine as The 25 characterized in that the casing ribs (24,.., 27, 30) run parallel to the bearing rings (13, 13', 13''), and in that the securing means (31,.., 35) are respectively arranged between a bearing ring (13, 13', 13'') and a neighboring casing rib (24,.., 27, 30). 30 2, claim claimed in a\$

machine The 3. spacers (31,..,

characterized in that the securing means are designed 33) which extend between the respective bearing ring and the neighbouring casing rib, and which are connected by one end securely to the 35 bearing ring or the neighboring casing rib and have a and the between the other end clearance (SP) neighboring casing rib or the bearing ring.

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claim claimed in machine as The 4. spacers (31,.., 33) characterized in that the designed such that they are adjustable in their length. claim claimed in machine asl The 5. characterized in that the spacers (31,.., 33) comprise in each case a threaded sleeve (34) and a screw (35) screwed into the threaded \$leeve (34).

The machine as claimed in one of claims/ 3 to 5, 6. characterized in that the laminated stator core (11) extends on both sides of $\frac{1}{4}$ vertical center plane (37) oriented perpendicular to the longitudinal axis (36) of the machine, and in that the spacers (31, 32) for the bearing rings (13, 13') further away from the vertical center plane (37) are respectively arranged only between the bearing ring and the neighboring casing rib (30 or 25) lying closer $t \phi$ the vertical center plane (37).

claim claimed in machine as The 7. characterized in that the spacers (33) for the bearing rings (13'') lying closer to the vertical center plane (37) are respectively arranged between the bearing ring and the two neighboring casing ribs (26, 27).

The machine as claimed in one of claims 1 to 7, characterized in that the fastening parts comprise fastening plates (19) which act as elongate securely vertically arranged and are springs, are connected, in particular welded, in each case in the middle region to the bottom casing section (15) and at the ends to the bearing rings (13, 13', 13'').